IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION EXAMINING OPERATIONS

Applicant: Baoxin Li   Group Art Unit: 3711

Serial No.: 10/058,684   Examiner:

Filed: Jan. 28, 2002

Title: SUMMARIZATION OF SUMO VIDEO CONTENT

INFORMATION DISCLOSURE STATEMENT
IN ACCORDANCE WITH 37 CFR §1.98

Chernoff, Vilhauer, McClung & Stenzel, LLP
1600 ODS Tower
601 S W Second Avenue
Portland, Oregon 97204-3157

July 22, 2002

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Applicants submit herewith copies of publications which they are aware of and which they desire to have considered by the Patent Office in accordance with 37 CFR §1.97. In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being submitted before the mailing date of a first Office Action on the merits of the above-identified application.

In accordance with 37 CFR §1.97(h), the filing of this Information Disclosure Statement will not be regarded as an admission that any patent or publication or combination of patents referred to herein is, or is considered to be, material to patentability under 37 CFR §1.56(b) unless specifically designated as such.

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A list of the publications are enclosed herewith set forth on the attached page of Form PTO-1449 (Modified).

The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor and the information in his file.
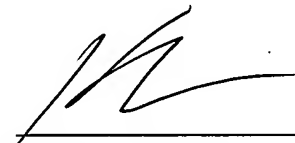
Respectfully submitted,

Kevin L. Russell
Attorney for Applicant
Registration No. 38292
Tel: (503) 227-5631

CERTIFICATE OF MAILING

I hereby certify that these documents are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231.

Dated: July 22, 2002

Kevin L. Russell

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. KLR 7146.125	SERIAL NO. 10/058,684
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANT: Baoxin Li	
	FILING DATE Jan. 28, 2002	GROUP 3711

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,183,056	Jan. 8, 1980	Evans, et al.			
	AB	5,805,733	Sep. 8, 1998	Wang, et al.			
	AC	5,956,026	Sep. 21, 1999	Ratakonda			
	AD	5,995,095	Nov. 30, 1999	Ratakonda			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BA							
	BB							

OTHER ART

	CA	Michael A. Smith, et al., *Video Skimming for Quick Browsing Based on Audio and Image Characterization*; Carnegie Mellon, School of Computer Science, Pittsburgh, PA; July 30, 1995; pp. 0-21.
	CB	Frank R. Kschischang, et al., *Factor Graphs and the Sum-Product Algorithm*; IEEE Transactions of Information Theory, Vol. 47, No. 2, February 2001; pp. 498-519.
	CC	Stefan Eickeler, et al.; *Content-Based Video Indexing of TV Broadcast News Using Hidden Markov Models*; IEEE International Conference of Acoustics, Speech and Signal Processing, Phoenix, AZ, 1999.
	CD	Padhraic Smyth, *Belief Networks, Hidden Markov Models, and Markov Random Fields: a Unifying View*; Information and Computer Science Department of University of California, Irvine, CA; March 20, 1998, pp. 1-11.
	CE	Wayne Wolf, *Hidden Markov Model Parsing of Video Programs*; Department of Electrical Engineering, Princeton University, 1997, pp. 2609-2611.
	CF	H. Pam, et al., *Detection of Slow-Motion Replay Segments in Sports Video for Highlights Generation*, IEEE International Conference of Acoustics, Speech, and Signal Processing, Salt Lake City, UT, 2001.
	CG	Youn Rui, et al.; *Automatically Extracting Highlights for TV Baseball Programs*, Microsoft Research, Redmond, WA, 2000; pp. 105-115.
	CH	Lawrence R. Rabiner, *A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition*, Proceedings of the IEEE, Vol, 77, No. 2, February 1998; pp. 257-286.
	CI	Boreczky, it al., *A Hidden Markov Model Framework for Video Segmentation Using Audio and Image Features*, FX Palo Alto Laboratory, Palo Alto, CA.
	CJ	Zhu Liu, et al., *Detecting News Reporting Audio/Visual Information*, AT&T Labs - Research, Red Bank, NJ; IEEE International Conference on Image Processing, Kobe, Japan, 1999.

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		Ullas Gargi, et al., *Performance Characterization of Video-Shot-Change Detection Methods*, IEEE Transactions of Circuits and Systems for Ccideo Technology, Vol 10, No. 1, February 2000; pp.	
	CL	Rainer Lienhart, *Comparison of Automatic Shot Boundary Detection Algorithms*, Microcomputer Research Labs, Intel Corporation, Santa Clara, CA.; IS&SPIE Conference on Storage and Retrieval for Image and Video Databases VII, San Jose, CA, Jan. 1999; pp. 290-301.	
	CM	M. R. Naphade, et al., *A High-Performance Shot Boundary Detection Algorithm Using Multiple Cues*, IEEE International Conference on Image Processing, Chicago, IL 1998; pp. 884-887.	
	CN	Stuart J. Golin, *New Metric to Detect Wipes and Other Gradual Transitions in Video*, Sarnoff Corporation, Princeton, NJ;IEEEConference on Visual Communications and Image Processing, San Jose, CA, Jan. 19999; pp. 1464-1474.	
	CO	H. B. LU, et al. *Robust Gradual Scene Change Detection*, IEEE International Conference on Image Processing, Kobe, Japan, 1999.	
	CP	Toshio Kawashima, *Indexing of Baseball Telecast Content -Based Video Retrieval*, Dept. of Information Engineering , Hokkaido University, Sapporo, Japan; IEEE 1998, pp. 871-874.	
	CQ	Dennis Yow, et al. *Analysis and Presentation of Soccer Highlights from Digital Video*, Department of Electrical Engineering of Princeton University, Princeton, NJ, 1995.	
	CR	Drew D. SAR, et al. *Automated Analysis and Annotation of Basketball Video*, SPIE Vol.3022, 1997, pp. 176-187.	
	CS	Yak Wang, et al., *MULTIMEDIA CONTENT ANALYSIS: Using Both Audio and Visual Clues*, IEEE Signal Processing Magazine, November 200, pp. 12-35.	
	CT		

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Examiner Signature		Date Considered	

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language translation is attached.

Information Disclosure Statement --PTO-1449 (Modified)

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